

LIQUID CRYSTAL DISPLAY CONTROLLER

ABSTRACT OF THE DISCLOSURE

5 The present invention provides a liquid crystal display controller device
and method which provides for a full and/or partial display with good display quality
and/or low power consumption based on the scanning period for an active scan line being
dependent upon a number of reference clock pulses. Some embodiments of the present
invention include one or more of the following features: keeping the frequency
substantially constant for different numbers of active scan lines, allowing change of the
10 frequency due to characteristics of the LCD, displaying gradation with near linear
effective voltage characteristics, displaying gradation data with lower power, or
displaying a partial or full screen in a mobile device, for example, a cell phone.

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